

Docket No. 217 – Development and Management Plan Inspection

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

Date: March 2, 2006

Inspector: Diana Walden and Lee Curtis

Location: Transition Stations: Hoyts Hill, Archers Lane, Norwalk Junction

Storm/

Rain Event: Approximately 0.36" of precipitation fell mostly in the form of snow on 3/2 as reported by NOAA

Areas of Inspection	Observation	Recommended Action
Access Roads and Adjacent Roadways	<p>- Hoyts Hill: Access is gained off Hoyts Hill Road. Sedimentation had previously been an issue at access point. Additional haybales were installed in an attempt to control this. 3/2/06.</p> <p>- Crews continue to be on site to drill excavations and install structures. 2/16-3/2/06.</p> <p>- Archers Lane: Conditions were muddy. Water levels at the wetland crossings on the access road to the ROW had remained constant since the last site visit. 3/2/06.</p> <p>- Trenching continues within the access drive into the station for 345kV installation. Sediment is being stockpiled along the trench. 2/23-3/2/06</p> <p>- Norwalk Junction: Sediment tracking did not appear to be an issue at this time. The snow and sediment piles pushed into the swale remain from the last snow event remain. 2/16-3/2/06.</p>	<p>- Ruts should be smoothed out as necessary. 12/30-3/2/06.</p> <p>- If the haybales don't improve the situation, additional stone may be necessary. 3/2/06</p> <p>- Sediment accumulation in the wetlands will have to be addressed. 2/2-3/2/06.</p> <p>- Snow removal on the access road for the ROW work caused sediment to the wetlands . 2/16-3/2/06</p> <p>- The stone wall and natural barriers here appear to keep any sediment from the wetlands along the drive. Continue to monitor 2/2-3/2/06</p> <p>- Continue to monitor Rt. 7 at the main access pad. 3/2/06.</p> <p>- See erosion control section for more details on the snow/sediment. 2/16-3/2/06</p>

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Foundation construction	<ul style="list-style-type: none"> - At Hoyts Hill: Caisson drilling was occurring at the time of inspection for placing some of the structures on the pad. Dewatering has been necessary. 2/23-3/2/06. - Additional work may be necessary on the outlet/dissipater pads as erosive gullies and sedimentation continue to worsen. 12/01-3/2/06. -At Archers Lane, work continues around the steel structures within the station pad. 2/23-3/2/06 - Trenching continues from the recently installed vault to along the access road as part of the 345kV work. 3/2/06 -At Norwalk Junction: Work continues on the structures in the station pad. 3/2/06 - A network of pipes was installed to dewater the well points on site. 2/23-3/2/06 	<ul style="list-style-type: none"> -The station pad itself is in good shape but the adjacent areas need some attention. 1/19-3/2/06. -See EC and dewatering section for more details. 3/2/06 -The stone may need to be extended based on the noted erosion issues. This will likely happen in the spring. See erosion control section. 12/01-3/2/06. -None at this time. The area is contained. 3/2/06 - See erosion control/dewatering sections for more information. 3/2/06.
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	<ul style="list-style-type: none"> -Hoyts Hill: Most of the perimeter silt fence remains in fairly good shape. 3/2/06 - Sedimentation continues to overwhelm the fence in the spot previously noted. Sedimentation continued to build through the fence and in the wetland.1/19-3/2/06 -Haybales were installed at this spot as recommended and contractors were going to be removing the sediment by hand. 3/2/06 - The erosive gullies remain under snow cover on both the northern and southern slopes resulting in increasing sediment deposits along the 	<ul style="list-style-type: none"> - Repair/restaple the silt fence if necessary. 2/16-3/2/06 - Continue to repair or install additional controls in the spot which washed through ASAP. More importantly- control the source of sedimentation (gullies) 1/19-3/2/06 - These controls are even more important now that dewatering is occurring. 2/23-3/2/06 - Gullies should be repaired and a stronger method of stabilization, such as erosion control mats should be considered. 10/27-3/2/06 -Extension of the outlet stone pad and restoration of erosion

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Erosion and Sediment Controls continued	<p>silt fence. 10/27-3/2/06.</p> <p>-Less severe erosion was noted along the face of the southern silt fence. 1/26-3/2/06</p> <p>- Haybales were installed at the outlet and along the slope for controlling dewatering discharge waters but sediment was still noted collecting at the fence. 2/23-3/2/06</p> <p>- A sand pile for mixing concrete was being stored in the driveway across from Rt. 58. 2/16-3/2/06</p>	<p>will likely occur in the spring when access is stable. 3/2/06</p> <p>-A filter bag may be necessary to limit the sedimentation and turbidity before it enters the catch basin to the outlet. 2/23-3/2/06</p> <p>- Silt fence still needs to be installed at the stockpile since it is adjacent to wetlands. 2/16-3/2/06</p>
	<p>- Archers Lane: Controls along the access road to the ROW were somewhat degraded from snow plowing and sedimentation continues in the 1st wetland crossing to varying degrees from a fine layer over the leaf litter to several inches of accumulation. 1/26-3/2/06</p> <p>-The drainage pipe from the station directs run-off to the stone swale that empties at the silt fence near the 2nd wetland crossing. Haybales are in place in the swale. 3/2/06</p> <p>- Norwalk Junction: Haybales remain along the perimeter fence on site as an additional control. The silt fence remained adjacent to the river but needs to be toed-in in some locations, especially as snow/sediment pile were placed beyond the haybales. 2/16-3/2/06.</p> <p>-The wetland area outside the silt fence adjacent to the river, remain partially flooded with pooled, turbid water. 12/30-</p>	<p>- Water levels have remained constant for the most part.</p> <p>- Any easily accessible deposits of sediment will need to be removed. Fine layers of silt can remain. 1/26-3/2/06</p> <p>-Issues from snow plowing for ROW use require attention from those crews. Sediment was pushed over the controls and into the wetlands. 3/2/06</p> <p>- Current use is going well but sediment will need to be carefully removed from this area as well. 1/26-3/2/06</p> <p>- The haybales appear to be working well, keeping mud and soil from the site from reaching the silt fence. 2/16-3/2/06</p> <p>-Toe in silt fence due to the presence of the snow/dirt piles 2/16-3/2/06</p> <p>This area receives direct runoff from the site through the swale making water quality important. The adjacent site is disturbed resulting in this turbidity. 1/19-3/2/06</p>

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	<p>3/2/06</p> <ul style="list-style-type: none"> - Snow piles with sediment remained directly in and along the swale. This introduces more potential for turbidity. 2/16-3/2/06 - Erosive gullies/soil slumping remain in a number of locations along a portion of the drainage swale due to site run-off, resulting in further sedimentation to the swale. 12/30-3/2/06. Haybales remained in the inlets. 2/2-3/2/06 -Need for dewatering has resulted in a riprap swale built to the Norwalk River. An outlet pipe from the well points was in place. 2/23-3/2/06 	<ul style="list-style-type: none"> - These piles still need to be pulled back from the swale to prevent potential sedimentation as they melt. 2/16-3/2/06 - The erosion control matting on the swale likely needs to be extended up and over the top of slope to prevent further erosion until the growing season. 12/30-3/2/06 - Be sure to restore this area when work is complete. 2/16-3/2/06
Inland Wetland and Watercourse encroachment and mitigation	<ul style="list-style-type: none"> - Hoyts Hill: As part of the transition station, a small area of wetland was cleared and altered. The outer silt fence is still up as a work limit. 3/2/06. - Sedimentation continues to flush through the fence at this time and accumulate in a small area of the wetland beyond. 1/19-3/2/06 -More sediment has accumulated as a result of the dewatering. 2/23-3/2/06 -Archers Lane: Watch run-off velocity down the completed slopes and walls. Pick up deposited sediment adjacent to and in the wetlands at the ROW access road crossings. 1/26-3/2/06 - Norwalk Junction: A riprap swale was built right to the 	<ul style="list-style-type: none"> -In general, keep all equipment and materials out of wetlands not to be disturbed. 11/10-3/2/06 - The fence needs repair in addition to the haybales recently installed. Sediment will be removed by hand in the near future. 3/2/06 - A filter bag may be necessary for dewatering. 3/2/06) - Pull back the sediment as a result of the snow plowing. See the ROW report for more details. 2/16-3/2/06 -See erosion control section for details on the turbidity issues which appear to be a result of work on site as well as the access road in the ROW 1/19-3/2/06 -Continue to monitor. 3/2/06

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	<p>river for dewatering on-site. Well points will ensure the water remains clear. 3/2/06</p> <p>- The outlet of the drainage swale is at the headwall of the wetland area. Turbidity issues continue to be noted here in the wetlands but have not had a significant impact on the river. 12/30-3/2/06.</p>	<p>-See Erosion Control Section for more details. Reduce turbidity by controlling its source- disturbed surfaces on site. 12/30-3/2/06 –Remove sediment/snow from the swale 2/16-3/2/06</p>
State species of concern, threatened and endangered species	- No species of concern are located in these areas of construction.	- N/A
Vegetative clearing limits (including trees to save or danger trees noted)	<p>-Hoyts Hill: The slopes and areas surrounding the site had begun to experience noticeable increase in growth before the cold weather but erosion issues continue and will need attention. 11/17-3/2/06</p> <p>- Archers Lane: no additional clearing was noted here. 3/2/06</p> <p>- Norwalk Junction: No additional clearing has been necessary 3/2/06</p>	<p>- It will be difficult to obtain sufficient growth due to the late time of year. 3/2/06</p> <p>-None at this time. 2/23/06</p> <p>- Restore areas along the perimeter as feasible. 3/2/06</p>
Dewatering	<p>-Dewatering has since occurred at Hoyts Hill. Haybales have since been placed in front of the sediment spot at the silt fence but sediment accumulation remains. 3/2/06</p> <p>- Dewatering was not necessary at Archers Lane at the time of inspection for the 345kV trenching. Haybales remain installed across the swale. 3/2/06</p> <p>- Foundation excavation at Norwalk Junction has created the need for dewatering. Well</p>	<p>-The silt fence still needs to be toed in at the sedimentation area and sediment will be removed by hand in the near future 3/2/06</p> <p>- Since water is still turbid by the time it reaches this spot, a filter bag should be considered above the CB. 2/16-3/2/06</p> <p>- Water is directed to a stone swale which infiltrates to a drainage pipe under the access road. Water levels in the wetlands have remained constant since the last visit. 3/2/06</p> <p>-The pipe allows the water to run the length of the swale for further filtration. 3/2/06</p>

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	points and a network of pipes have been installed to handle the increased amounts of water. 2/23/06	-Water should be very clear with the use of well points . 3/2/06
Blasting	- All blasting is complete at this time. 3/2/06	- None at this time.
Soils	<ul style="list-style-type: none"> - A small soil stockpile resulted from excavation at the Hoyts Hill pad. 2/16-3/2/06 - A soil stockpile at Norwalk Junction had been on site and will be removed to Clean Harbors. 2/9-3/2/06 	<ul style="list-style-type: none"> - The pile remains contained but will be removed appropriately. 2/16-3/2/06 - We need to confirm if the pile was removed yet. It does remain contained. 3/2/06
Spills and Material Storage	-None at this time. 3/2/06	<ul style="list-style-type: none"> - Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site - Report spills immediately, even if they are being controlled. - Take care not to get carried away and to be vigilant when refueling. Avoid refueling in the areas near the wetlands. Se proper storage for all materials.
Additional Observations	- When snow removal is necessary, place it in areas away from the flow patterns of run-off- i.e. not in swales which can drain to wetlands and carry the sediment.	

Next likely scheduled inspection:

Thursday March 9, 2006

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

Inspector's Signature:

Diana Walden



Hoyts Hill Transition Station: Photo on the left shows a small stockpile placed across Rt. 58 from the transition station. Controls should be placed at the base of the pile. Photo shows an overview of the station pad from Rt. 58. 3/2/06



Photo on the left shows where additional haybales were installed along the Hoyts Hill and the access drive to try and reduce erosion and sedimentation here. Photo on the right shows the outlet and gully with haybale check dams in place for dewatering. 3/2/06.



Hoyts Hill: Photo on the left shows where haybales were installed at the sediment breakout as recommended. Contractors will be removing the sediment by hand in the near future. Archers Lane: Photo on the right shows a view of the access drive where 345kV crews are trenching. 3/2/06.



Photo on the left is a view of the station pad with some of the structures in place. Photo on the right shows another view of the pad with 345kV materials in place. 3/2/06.



Norwalk Junction: Photo on the left shows a view of the swale where snow/sediment piles from the last storm remain in the swale. Photo on the right shows where the outlet pipe from the well points on site dewaterers to the riprap swale at the river. 3/2/06.



Photo on the left shows the network of pipes to dewater the well points to the main pipe that outlets at the river. Water taken from these points this way does not pick up turbidity from the trench that is seen in typical dewatering. 3/2/06